
Inter-module external cabling

Cabling in this category consists of routing network loops and superloops between two physically isolated cabinets, cabling to Meridian Mail, cabling system monitor to system monitor in a multi-column system, and connecting the system monitor to the MDF and UPS system.

The network equipment is in either a Meridian 1 module or an SL-1 cabinet, but not in both. PE can be in either cabinet type; however, IPE can only be in a module. The external cables are shielded to prevent possible EMI/RFI caused by the network loop signals.

The network cables must exit through a module I/O panel and connect to another I/O panel on a Meridian 1 module or an I/O panel on an SL-1 cabinet. In either packaging configuration, module to module or module to cabinets, the intermodule cables are the same. Only where the cables connect is different. [Figures 46](#), [47](#), and [48](#) show typical cabling configurations.

Figure 46
Module to module intercabinet cabling

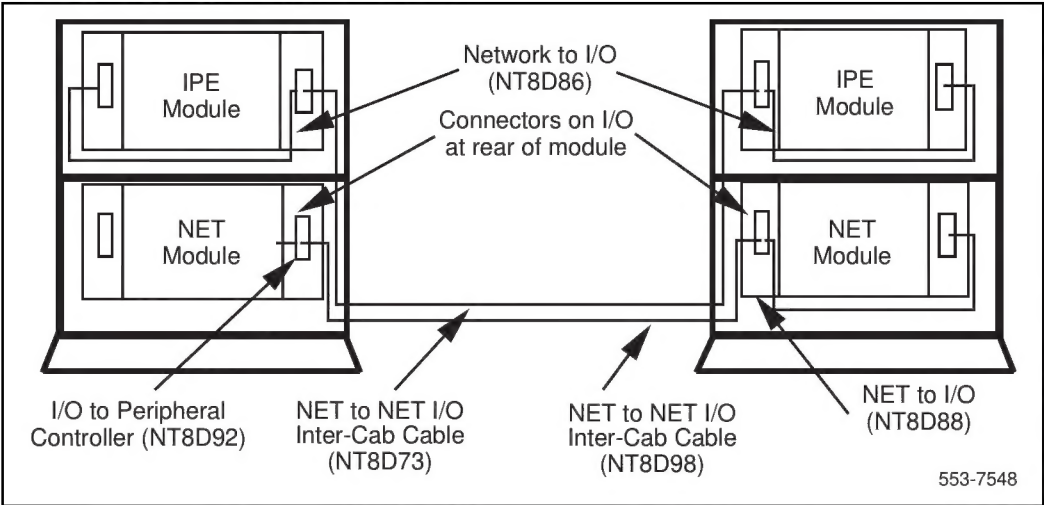


Figure 47
Cabinet to module intercabnet cabling

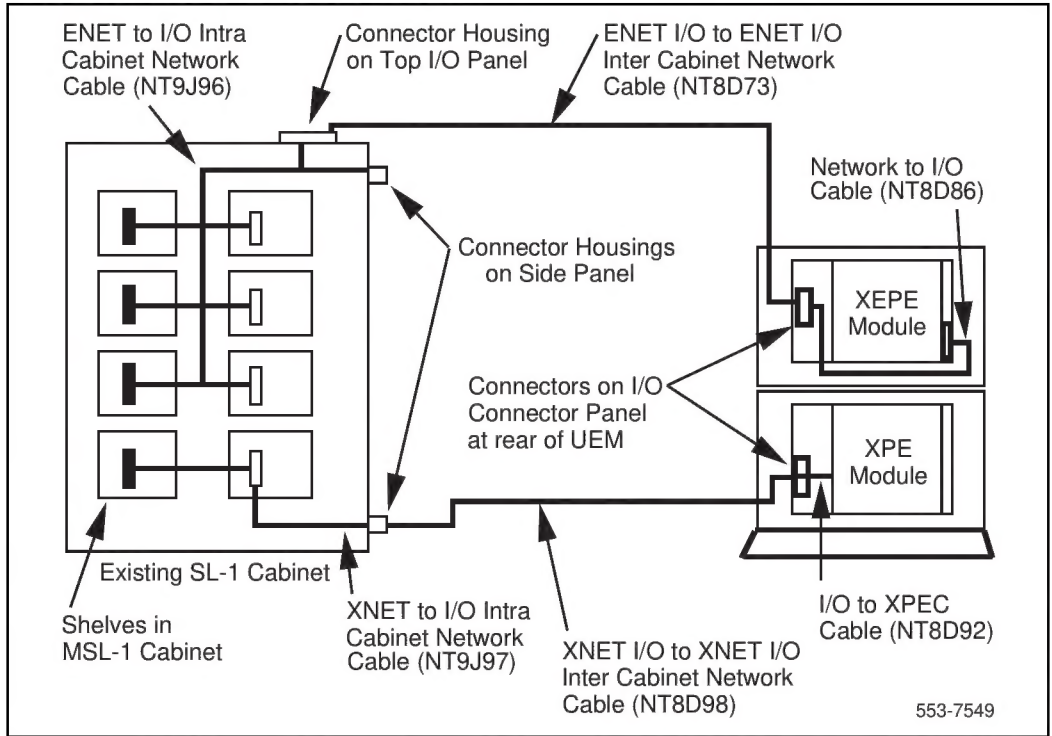
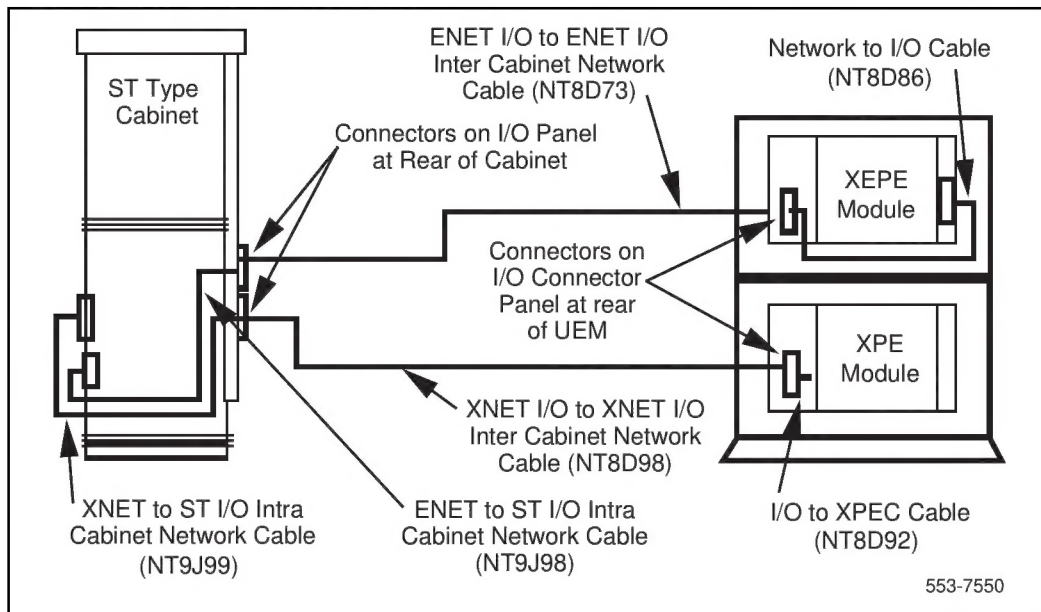
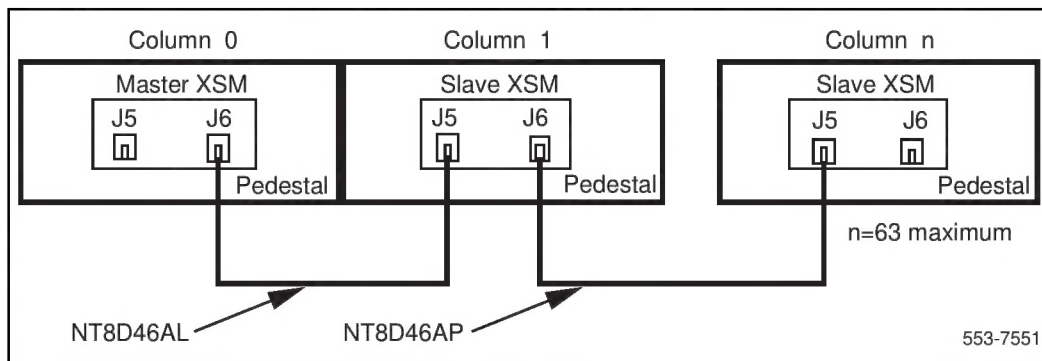


Figure 48
ST to module intercabinet cabling



Cabling between system monitors in a multi-column system requires the use of a single cable. The cabling is done in a daisy-chain fashion with the master system monitor at the beginning of the chain. The order in which each system monitor is cabled is not important. However, the address of each slave system monitor must be unique and there cannot be any gaps in the slave numbering. [Figure 49](#) shows a typical cabling scheme between columns.

Figure 49
System monitor to system monitor serial link cabling



The system monitor can be cabled to the MDF to provide power fail transfer control or additional alarms. The cable used is the NT8D46BH, EH, or DH and it is plugged into J3 on the system monitor. With the same J3 connector, the system monitor can be used with a variety of cables for upgrading SL-1 type systems to the Meridian 1 system options.

The system monitor can also monitor and control an AC-powered UPS. Connector J4 is used for this interface. Three cables are available for connecting to a UPS: NT8D46AQ, NT8D46AJ, and NT8D46AU.

The system monitor can also work with DC power supplies. Connector J4 is used to monitor the rectifiers. Cables required depend on which battery distribution box is used. The QBL15 configuration uses one NT8D46AT per QBL15 as well as an NT6D54AA for a field wiring kit. The QCA13 uses an NT8D46AV and the QBL12 uses an NT8D46AW.